(PRES. by NWS Instruction 10	0-924) NATIONAL WEATHER SERVICE	The Couchesti, inconcerpp.		
MONTHLY REF	PORT OF HYDROLOGIC CONDITIONS	WFO Jackson, Mississippi REPORT FOR: MONTH YEAR April 2012		
	Hydrometeorological Information Center, W/OH2 NOAA / National Weather Service 1325 East West Highway, Room 7230 Silver Spring, MD 20910-3283	SIGNATURE Alan E. Gerard, Meteorologist In-Charge		
		DATE 05/15/2012		

An X inside this box indicates that no river flooding occurred within this hydrologic service area.

Synopsis...

The month of April was rather pleasant with temperatures ranging from 1.5 to 3 degrees above normal. These averages were closer to normal than March. The first week and the last week of the month had above normal temperatures while the middle two weeks had at or just below normal temperatures. Rainfall was below normal with the exception of scattered locations in Southeast Arkansas, Lower Yazoo Delta in Mississippi, and South Mississippi where rainfall was above normal.

The month opened with the Hydrologic Service Area (HSA) under high pressure. By the 2nd, warm and humid conditions returned with a southerly flow. An upper level disturbance, well out ahead of an upper level low pressure centered over the Four Corners Region of the Southwest U.S., produced heavy rainfall, high winds, and hail as it moved across the HSA on the 2nd and 3rd. By the morning of the 4th, the upper level low pressure center had moved to the North Texas Panhandle. This produced heavy rainfall, high winds, and large hail across northern portions of Northeast Louisiana and Southeast Arkansas. A cold front finally moved across the HSA on the 5th. Rainfall storm totals across Southeast Arkansas and the Yazoo Delta Region ranged from 1.00 to 5.00 inches. Rainfall across Northeast Louisiana and Northeast Mississippi ranged from less than an inch to 3.00 inches while rainfall across South Mississippi ranged from 1.00 to 6.00 inches.

High pressure pushed into the region on the $6^{\rm th}$ and $7^{\rm th}$. A weak, dry cold front pushed across the area on the $8^{\rm th}$. High pressure moved in to the region for the $9^{\rm th}$ and $10^{\rm th}$ with fair weather. By late on the $10^{\rm th}$, another cold front began pushing into the area. Some hail was reported with some of the thunderstorms in northern portions of Northeast Louisiana. The cold front moved across the HSA by the morning of the $11^{\rm th}$. Rainfall amounts of less than an inch were scattered across Northeast Louisiana and Southeast Arkansas and areas north of I-20 in Mississippi.

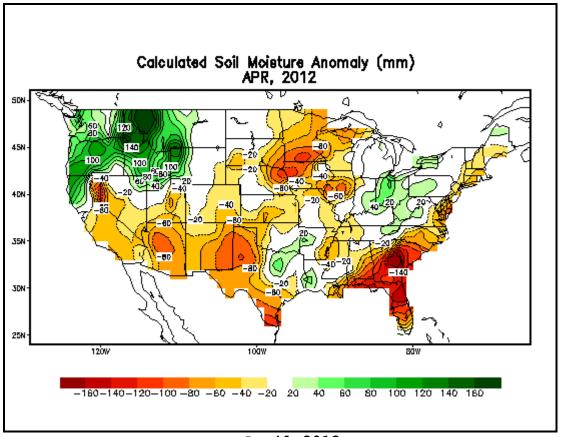
High pressure built into the area on the 11^{th} through the 13^{th} . From the 14^{th} to the 15^{th} , a strong southerly flow developed as high pressure shifted east

and another upper level low pressure centered across the Southwest U.S. began moving northeastward. An associated surface cold front pushed across the HSA from the 16th into the morning of the 17th. Heavy rainfall occurred behind the front as an upper level disturbance moved across the area during the day. Rainfall storm totals across Southeast Arkansas ranged from 1.00 to 2.00 inches while totals across Northeast Louisiana and Mississippi south of I-20 ranged from 0.50 to 3.50 inches. The heaviest rainfall occurred north of I-20 in Mississippi where rainfall ranged from 0.50 to 5.50 inches. High pressure built into the area from the 18th until 20th.

Yet, another cold front pushed across the region from late on the $20^{\rm th}$ into the $21^{\rm st}$. Rainfall was scattered west of Interstate 55 while no rainfall occurred to the east of the interstate. Where rainfall fell, amounts were less than an inch. An additional fast moving dry cold front pushed through the HSA on the $22^{\rm nd}$ bringing high pressure and cooler temperatures. High pressure remained in place through the $25^{\rm th}$. As high pressure pulled east on the $26^{\rm th}$, a warm and humid southerly flow developed and remained through the end of the month. Only a few isolated showers were noted across Central and East Mississippi on the $26^{\rm th}$.

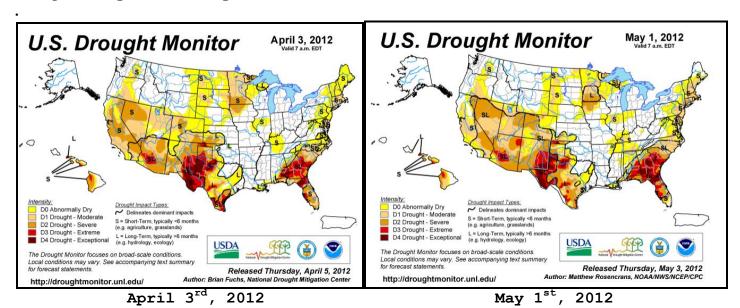
River and Soil Conditions...

Soil Moisture:



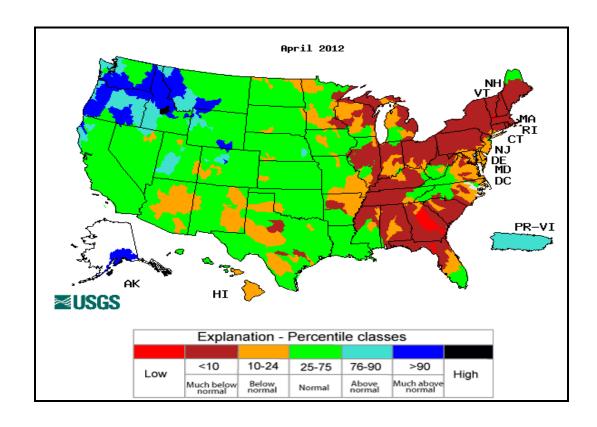
April 2012

Drought Comparison to prior month:



Streamflow:

The United States Geological Survey's (USGS) April 2012 river streamflow records were compared with all historical April streamflow records. River streamflow ranged from below normal to much below normal across the Yazoo River Basin, Tombigbee Basin and Upper Pearl Basin. River streamflow was near normal across the remaining river basins in Mississippi, Southeast Arkansas, and Northeast Louisiana.



Minor flooding occurred along the Upper and Middle Big Black River. Elsewhere, minor to moderate river rises occurred during the first week of the month and between the $16^{\rm th}$ and $20^{\rm th}$ of the month.

Temperatures are expected to remain above normal while chances are even for above normal, below normal or normal rainfall in the 1 to 3 month time period. Based on current soil moisture, streamflow, and 1 to 3 month weather outlooks, flood potentials are as follows:

Pearl River System: Average.

Yazoo River System: Below average.

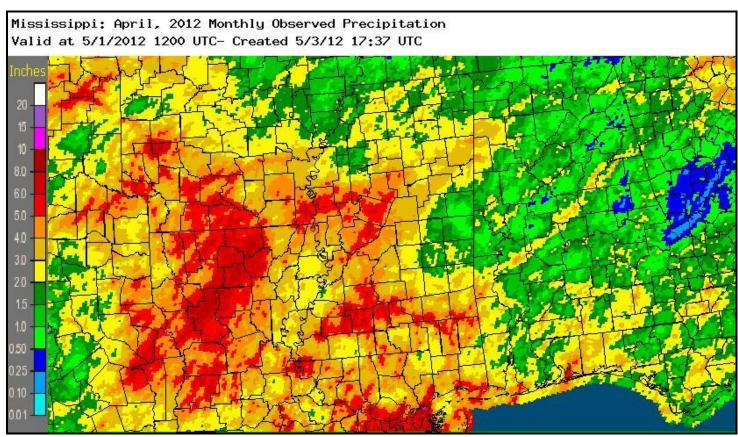
Big Black River System: Average.
Homochitto River System: Average.
Pascagoula River System: Average.
Northeast LA and Southeast AR: Average.

Tombigbee River System: Below average.

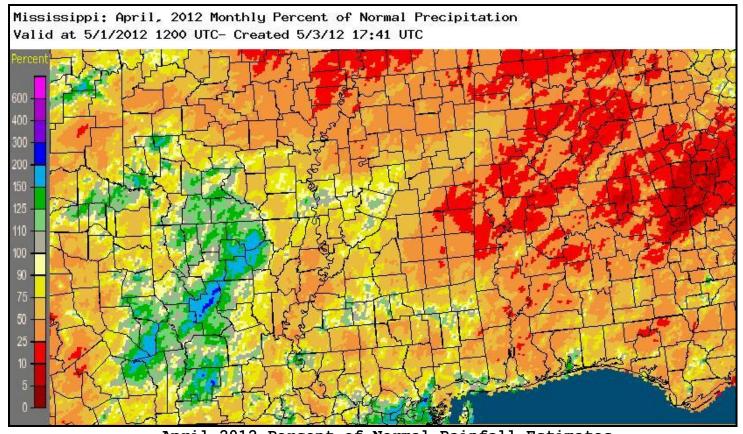
Mississippi River: Average.

Rainfall for the month of April

The largest rainfall amounts in the HSA from NWS Cooperative Observer reports during the period from 7 am on March 31st until 7 am on April 30th were: 7.35 inches at Union Church, MS; 6.17 inches at Prentiss, MS; 5.89 inches at Mize, MS; 5.81 inches at Crystal Springs, MS; 5.55 inches at Canton, MS; 5.42 inches at Vicksburg, MS; 5.38 inches at Eudora, AR; 5.25 inches at Vaiden, MS; 5.14 inches at Rayville, LA; 5.08 inches at Oak Ridge, LA; and 5.01 inches at Yazoo City, MS.



April 2012 Rainfall Estimates



April 2012 Percent of Normal Rainfall Estimates

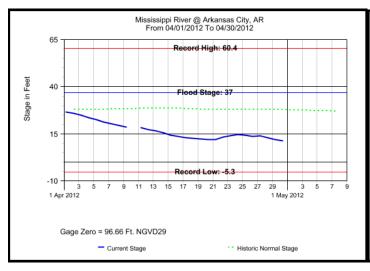
Note: Observer rainfall and MPE may differ due to time differences.

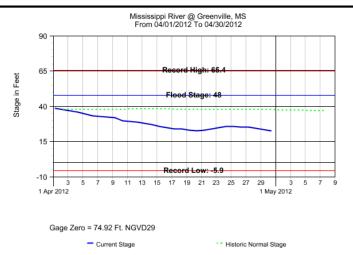
April rainfall for Selected Cities...

_	March	Departure	2012	2012 Departure
City (Airport)	Rainfall	from normal	Rainfall	from Normal
Jackson, MS	4.57	-0.39	23.93	+4.20
Meridian, MS	1.39	-3.39	22.70	+1.77
Greenwood, MS	4.22	-0.91	14.72	-3.66
Greenville, MS	3.20	-1.61	12.75	-6.60
Hattiesburg, MS	3.20	-1.73	25.37	+3.81
Vicksburg, MS	4.06	-0.91	20.48	+0.14

Mississippi River... Mississippi River Plots for April, 2012

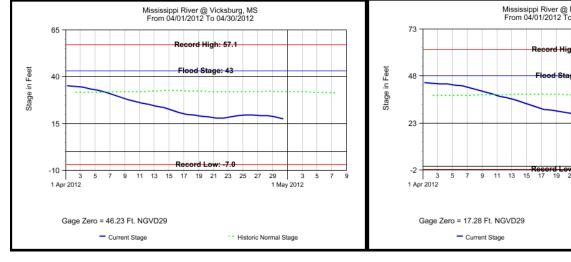
Plots Courtesy of the United States Army Corps of Engineers

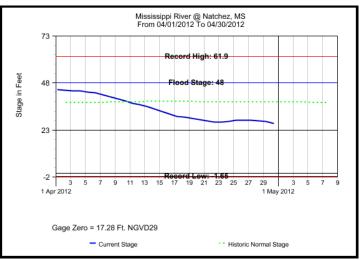




ARKANSAS CITY, MS

GREENVILLE, MS





VICKSBURG, MS

NATCHEZ, MS

Preliminary high and low stages for the month:

Location	FS	High Stage(ft)	Date	Low Stage(ft)	Date
Arkansas City, AR	37	26.83	04/01/12	10.53	04/30/12
Greenville, MS	48	38.51	04/01/12	21.82	04/30/12
Vicksburg, MS	43	35.36	04/01/12	17.14	04/30/12
Natchez, MS	48	44.38	04/01/12	26.04	04/30/12

Total Flood Warning products issued: 3
Total Flood Statement products issued: 12
Total Flood Advisories MS River : 00

Daily Climate and Ag WX Products (AGO'S) issued: 30 Daily CoCoRaHS Rainfall Products (LCO'S) issued: 30

Daily River and Lake Summary Products (RVD'S) issued: 30

Marty V. Pope

Service Hydrologist
Latrice Maxie

Assistant Hydrologist/Observing Program Leader (OPL)

Note: Provisional stage and precipitation data were furnished with the cooperation of the Mississippi, Louisiana, and Arkansas National Weather Service Cooperative Observer Programs, United States Geological Survey (USGS), United States Army Corps of Engineers (USACE), Pearl River Valley Water Supply District (PRVWSD), Pat Harrison Waterway District, Pearl River Basin Development District, and the Mississippi Department of Environmental Quality.

CC: USGS Little Rock District
USGS Ruston District
USACE Mobile District
USACE Vicksburg District
USACE Mississippi Valley Division
USGS Mississippi District
SRH Climate, Weather and Water Division
Lower Mississippi River Forecast Center
Pearl River Valley Water Supply District
Hydrologic Information Center
Southern Region Climate Center
Pat Harrison Waterway District
Pearl River Basin Development District